

Title (en)
SPARK PLUG CONNECTOR AND TERMINAL ASSEMBLY THEREFOR

Publication
EP 0530883 A3 19931118 (EN)

Application
EP 92202473 A 19920811

Priority
US 75192491 A 19910903

Abstract (en)
[origin: EP0530883A2] A spark plug connector (12) for connecting an ignition cable (32) to a recessed contact button (30) of a spark plug (24) comprises a boot assembly (34) and a terminal assembly (36). The boot assembly (34) includes a thermoplastic tubular boot (38) that has an internal suspended terminal support tube (39) and an external arm (42) for securing the spark plug connector (12) to an engine head (14). The boot assembly (34) also includes an insert moulded elastomeric seal (44-48) that provides spark plug and ignition cable seals at the respective ends of the boot (38). The terminal assembly (36) comprises a pin terminal (50), a pin terminal retainer (52) and a coil compression spring (54). The pin terminal retainer (52) includes a sleeve (58) that is disposed in the terminal support tube (39) and a forward latch tang (60) that prevents withdrawal of the terminal assembly (36) from the boot assembly (34). The pin terminal (50) in the sleeve (58) of the pin terminal retainer (52) and an enlarged head (66) that serves as the electrical contact that is pushed forwardly by the compression spring (54) to engage the recessed contact (60) of the spark plug assembly (24). The pin terminal retainer (52) has a rearward latch tang (62) that engages the pin terminal (50) to limit the forward travel of the pin terminal (50) and a ferrule (56) that attaches the pin terminal retainer (52) to an ignition cable (32). <IMAGE>

IPC 1-7
H01T 13/04

IPC 8 full level
H01T 13/04 (2006.01)

CPC (source: EP US)
H01T 13/04 (2013.01 - EP US)

Citation (search report)

- [A] EP 0388024 A1 19900919 - GEN MOTORS CORP [US]
- [A] FR 2180184 A5 19731123 - ECE [FR]
- [A] US 4620763 A 19861104 - MOCHIDA HIDEYUKI [JP]
- [A] EP 0383661 A1 19900822 - FERRITES MUSORB APPLIC SOC [FR]
- [A] PATENT ABSTRACTS OF JAPAN, Vol. 14, No. 336 (E-953)[4279] 19 July 1990; & JP-A-02 112 187 (NGK SPARK PLUG) 24 April 1990, Abstract.

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Designated contracting state (EPC)
DE GB

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US 5127840 A 19920707; AU 2097992 A 19930429; AU 640573 B2 19930826; EP 0530883 A2 19930310; EP 0530883 A3 19931118; JP H05205845 A 19930813; JP H0666150 B2 19940824

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